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$$\sim p \vee q \rightarrow r$$

$$s \vee \neg q$$

$$\neg t$$

$$p \rightarrow t$$

$$\sim p \wedge r \rightarrow \neg s$$

$$\therefore \neg q$$

$$\sim p \wedge r \rightarrow \neg s$$

$$s \vee \neg q \equiv \neg s \rightarrow \neg q$$

$$\therefore \sim p \wedge r \rightarrow \neg q \text{ (silogisme)}$$

$$p \rightarrow t$$

$$\neg t$$

$$\therefore \neg p \text{ (tollens)}$$

TIDAK VALID !!

P: miranda

take a course in discrete math

q: she will graduate

r: she qualified for the job

s: miranda reads this book

$$\sim p \rightarrow \neg q$$

$$s \rightarrow r$$

$$\neg q \rightarrow \neg r$$

$$r \rightarrow p$$

$$\sim p \rightarrow \neg r \text{ (silogisme)}$$

$$s \rightarrow p \text{ (silogisme)}$$

$$r \rightarrow p \text{ (kontraposisi)}$$

$$\sim p \rightarrow \neg r \text{ (kontraposisi)}$$

$$= p \vee \neg r \text{ (kontraposisi)}$$

$$= \sim p \wedge s \text{ (double neg)}$$

miranda doesn't take a course in discrete mathematics

but, she reads this book

No.:

Date:

☐☒

a. \sim (some drivers don't obey the speed limit)

☐

all drivers obey the speed limit

☐

b. \sim (all swedish movies are serious)

☐

some swedish movies aren't serious

☐

c. \sim (No one can keep a secret)

☐

someone can keep a secret

☐

d. \sim (there is someone in this class who doesn't have a good attitude)

☐

Everyone in this class has a good attitude

☐☐☒

a. True

☐

b. false

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c. true

☐

d. false

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